

IN THE CLAIMS

Please cancel claims 6-9 and add claim 10-27 as follows:

1. (Original) A method of treating dental carries and remineralizing lesions, said method comprising the steps of:

directing a stream comprising an oxidizing gas onto a carious lesions for a period of time sufficient to kill microorganisms within the carious lesion; and

thereafter applying to the lesion a remineralization formulation.

2. (Original) The method according to claim 1 wherein the formulation comprises a zinc salt.

3. (Original) The method according to claim 2 wherein the formulation comprises zinc chloride.

4. (Original) The method according to claim 3 wherein the formulation comprises:

<u>INGREDIENT</u>	<u>PERCENT W/W</u>
Water	16.5576
Sorbitol 70%NF	21.5933
Sodium Benzoate NF	0.5000
PVP	2.0000
Sodium Tripolyphosphate	3.0000
Titanium Dioxide	1.0000
Sodium Monofluorophosphate	0.2400
Xylitol	0.4000
Zinc Chloride	0.7500
Sodium Citrate USP	2.6000
Methyl Paraben	0.1200

Dicalcium Phosphate, Dihydrate USP	12.0000
Glycerin, 99.7%	17.8890
CMC-7MXF	0.9000
Hydrated Silica (Syloident 756)	9.7109
Hydrated Silica (Zeodant 165)	4.4141
Sodium Lauryl Sulfate	0.6000
Sodium Methyl Cocoyl Taurate	0.6000
Riboflavin	0.0001
Flavor (Noville AN114153)	2.0000
Chlorine Dioxide Solution, 2%	3.1250
Sodium Hydroxide USP, 10% (pH adjust)	0.0000
	100.0000

5. (Original) The method according to claim 3 wherein the formulation comprising:

<u>Ingredient</u>	<u>Percent w/w</u>
Deionized Water	93.4800
Sodium Benzoate	0.3000
Sodium Fluoride	0.2400
Xylitol	1.0000
Zinc Chloride	0.5000
Sodium Citrate	1.5000
Methylparaben	0.0800
Tauranol WS HP	0.7500
Flavor	0.8000
Poloxamor 407	1.2500
FD&C Blue #1	0.0000
Citric Acid	0.1000
	100.0000

Claims 6-9 cancelled.

10. (New) The method according to claim 1 wherein the step of directing a stream comprises directing a needle-sized jet of pure ozone.

11. (New) The method according to claim 1 wherein the step of directing a stream comprises directing a needle-sized jet of ozonized air.

12. (New) The method according to claim 11 wherein said ozonized air comprises about 5 percent ozone.

13. (New) The method according to claim 11 wherein the stream includes a micro-organism-free aqueous medium.

14. (New) The method according to claim 13 wherein the aqueous medium comprises a reductant.

15. (New) A method of treating dental caries, the method comprising delivering ozone to the carious tissue at a pressure sufficient to kill substantially all of the micro-organisms within the carious tissue, without dissolving the carious tissue and without removal of the carious tissue following the ozone treatment; and thereafter applying to the carious tissue a remineralization formulation.

16. (New) The method according to claim 15 wherein the ozone is delivered for at least 0.5 second.

17. (New) The method according to claim 15 wherein a needle-sized jet of pure ozone or ozonized air in a micro-

organism-free aqueous medium is injected at the desired location.

18. (New) The method according to claim 17 wherein the aqueous medium is water.

19. (New) The method according to claim 17 wherein the aqueous medium contains a reductant.

20. (New) The method according to claim 19 wherein the reductant comprises thiocyanate or peppermint.

21. (New) A method of treating dental caries, said method comprising the steps of:

penetrating carious tissue with gaseous ozone for a period of time sufficient to kill micro-organisms there within; and

thereafter applying to the carious tissue a remineralization formulation.

22. (New) A method of treating root carious lesions, said method comprising the steps of:

directing a stream comprising of gaseous ozone onto said root carious lesions for a period of time sufficient to kill micro-organisms within the carious tissue; and

thereafter applying to the root carious lesions a remineralization formulation.

23. (New) The method according to claim 22 wherein the step of directing a stream comprising gaseous ozone comprises directing a needle-sized jet of pure ozone.

24. (New) The method according to claim 22 wherein the step of directing a stream comprising gaseous ozone comprises directing a needle-sized jet of ozonized air.

25. (New) The method according to claim 24 wherein said ozonized air comprises about 5 percent ozone.

26. (New) The method according to claim 24 wherein the stream includes a micro-organism-free aqueous medium.

27. (New) The method according to claim 26 wherein the aqueous medium comprises a reductant.